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NOTICE OF ALLOWANCE AND FEE(S) DUE

45481

7590

12/17/2008

PAULEY PETERSEN & ERICKSON 2800 W. HIGGINS ROAD SUITE 365 HOFFMAN ESTATES, IL 60195 EXAMINER

VADEN, KENNETH I

ART UNIT

PAPER NUMBER

1793 DATE MAILED: 12/17/2008

| APPLICATION NO. | PLICATION NO. FILING DATE FIRST NAMED INVENTOR | | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-----------------|--|------------------|---------------------|------------------|--|
| 10/565.306 | 01/19/2006 | Kishore J. Doshi | HYI01101 | 9553 | |

TITLE OF INVENTION: METHOD FOR OPERATING A HYDROGEN GENERATOR

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 03/17/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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| appropriate. All further indicated unless correct maintenance fee notification | ed below or directed of | ng the Patent, advance o herwise in Block 1, by (| rders and notification a) specifying a new co | of ma orresp | aintenance fees wondence address; | and/or | mailed to the current (b) indicating a sepa | correspo arate "FE | indence address as E ADDRESS" for |
|---|---|--|--|-----------------------------|---|----------------------------|---|--------------------------------------|---|
| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 45481 7590 12/17/2008 | | | | | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mushave its own certificate of mailing or transmission. | | | | |
| 2800 W. HIGGI SUITE 365 | ERSEN & ERICI NS ROAD | | | States | eby certify that this s Postal Service w essed to the Mail | is Fee(ith suf Stop | of Mailing or Trans s) Transmittal is being ficient postage for fir ISSUE FEE address 1) 273-2885, on the d | g deposite st class m above, o | nail in an envelope or being facsimile |
| HOFFMAN ES | TATES, IL 60195 | | | | | | | | (Depositor's name) |
| | | | | | | | | | (Signature) |
| | | | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVEN | TOR | | ATTO | RNEY DOCKET NO. | CONFI | IRMATION NO. |
| 10/565,306 | 01/19/2006 | • | Kishore J. Doshi | | | | HYI01101 | , | 9553 |
| TITLE OF INVENTION | : METHOD FOR OPER | RATING A HYDROGEN | GENERATOR | | | | | | |
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| EXAM | MINER | ART UNIT | CLASS-SUBCLASS | | J | | | | |
| VADEN, K | ENNETH I | 1793 | 423-652000 | | | | | | |
| 1. Change of correspond CFR 1.363). The Address in the PTO/SB/47; Rev 03-4. Number is required. | registered attorney or agent) and the names of up to | | | | | | | | |
| PLEASE NOTE: Un recordation as set for (A) NAME OF ASSI | less an assignee is ident th in 37 CFR 3.11. Com GNEE | A TO BE PRINTED ON tified below, no assignee pletion of this form is NO | data will appear on the transfer of the transf | he pat g an as CITY a | tent. If an assignessignment. and STATE OR C | OUNT | RY) | | |
| Please check the appropriate assignee category or categories (will not be properties) 4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies | | | 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). | | | | | | |
| | ns SMALL ENTITY state | us. See 37 CFR 1.27. | ☐ b. Applicant is no | longe | er claiming SMAI | LL ENT | ΓΙΤΥ status. See 37 C | FR 1.27(§ | g)(2). |
| NOTE: The Issue Fee ar interest as shown by the | nd Publication Fee (if req records of the United Sta | uired) will not be accepte ates Patent and Trademark | ed from anyone other the Office. | an the | e applicant; a regi | stered a | attorney or agent; or th | ie assigne | ee or other party in |
| Authorized Signature | | | | | Date | | | | |
| Typed or printed name | | | | | | | | | |
| an application Confider | tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DO | CFR 1.311. The information of U.S.C. 122 and 37 CFR to USPTO. Time will vary riden, should be sent to the D NOT SEND FEES OR | 1.14 This collection i | e octir | mated to take 12 r | ninutec | to complete includir | na aatheri | ing preparing and |

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| 2800 W. HIGGINS | S ROAD | ART UNIT PAPER NUM | | | |
| SUITE 365 HOFFMAN ESTA | TES, IL 60195 | | 1793 DATE MAILED: 12/17/200 | 8 | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 639 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 639 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | Application No. | Applicant(s) | | | |
|---|--|---|------------------|--|--|
| | 10/565,306 | DOSHI, KISHORE J. | | | |
| Notice of Allowability | Examiner | Art Unit | | | |
| | KENNETH VADEN | 1793 | | | |
| The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 1/19/2006. | (OR REMAINS) CLOSED in or other appropriate commu GHTS. This application is s | this application. If not included nication will be mailed in due cou | rse. THIS | | |
| 2. ☑ The allowed claim(s) is/are <u>129</u> . | | | | | |
| 3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submi | been received. been received in Application cuments have been received of this communication to file ENT of this application. | n No I in this national stage application a reply complying with the require | ements | | |
| INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. | | | | | |
| Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), | 6. ☐ Interview Su Paper No./I 7. ☐ Examiner's . — | Formal Patent Application Jummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowar | nce | | |

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Art Unit: 1793

DETAILED ACTION

Allowable Subject Matter

- 1. The following is a statement of reasons for the indication of allowable subject matter:
- 2. For claims 1-23, the prior art of record does not disclose or suggest the claimed method of controlling a process for generating hydrogen including a) generating hydrogen at a rate within a first rate range sufficient to accommodate hydrogen in a reservoir, b) upon a predetermined first amount of hydrogen being accumulated in the reservoir, changing the rate of hydrogen generation to a rate within a second range insufficient to maintain the first amount of hydrogen in the reservoir, and c) upon a predetermined second amount of hydrogen being in the reservoir, said second amount being less than the first amount, changing the rate of hydrogen generation to a rate within the first rate range.
- 3. For claims 24-29, the prior art of record does not disclose or suggest the claimed method of controlling a process for generating hydrogen including changing the rate of hydrogen production from a first rate to a second rate and maintaining a substantially constant pressure swing cycle time for the adsorption at each such rate and varying the purity of the purified hydrogen stream.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KENNETH VADEN whose telephone number is (571)270-5824. The examiner can normally be reached on M-Th 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Melvin Curtis Mayes can be reached on (571)272-1234. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ΚV

December 4, 2008

/Melvin Curtis Mayes/ Supervisory Patent Examiner, Art Unit 1793